MACHINE FOR MELTING SNOW

Stream of Briny Steam From Pipe Speedily Converts Frozen Mass Into Running Water.

Blissards should have no terrors for street railway companies and street cleaning contractors if they have an equipment including the snow melting machine invented by an Oregon genius. This machine traverses the streets under its own power and projects a stream of bring steam from a pipe that speedily converts snow into water, permitting it to be drained off in a few hours by che sewer inlets. The apparatus consists of a wheeled platform on which



Snow Melting Machine.

a hot air furnace is mounted. On top of the furnace is a brine tank, and a pipe carries water to this. Another and much larger pipe extends from the front of the apparatus and to within a foot or so of the ground. The furnaces, besides supplying steam power to drive the vehicle, converts the water that passes through the tank into briny steam that passes through the large pipe in front and melts the snow like magic.

#### ASBESTOS MINED IN CANADA

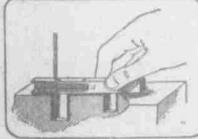
Industrial Situation-Discovered by Farmer.

Nearly all the asbestos of commerce comes from Canada. Perhaps the chief distinguishing feature from the point of view of composition as between the Italian and the Canadian varieties is to be found in the fact that the former is said to be anhydrous, says a writer in Cassier's Magazine. However, the Canadian mineral controls the industrial situation. As far back as the middle of the last century asbestes was known to exist in Canada. But little attention was attracted probably because of a noncommercial size of the deposits. A farmer, Pecteau, discovered in 1877 the mineral in commercial quantities and almost immediately production became valuable. In 1890 the total value extended to \$1,250,000. This value of output has never been equaled since, unless the exception has occurred in the last produced in 1890 was 9,860 tons, having an average value of nearly \$128 per ton. The value per ton has pretty steadily declined since. Once put into exportable shape, Canada's asbustos is, for the most part, sent to the United States. The average amount thus annually exported to her neighbor during the decade ending June 30, 1904, was about 15,000 tons, having a value of about \$450,000, or \$30 per ton.

## MAKING SIMPLE DEPTH GAGE

Apparatus in Use Twenty Years Without Renewing the Pine Plug Described by Designer.

A simple depth gage can be made ns follows: Take a piece of steel five-sixteenths of an inch thich and one-half inch wide and about three and one-half inches long. Drill a oneeight-inch hole lengthwise in the end to one side of the center line. About three-fourths of an inch from the end



Bimple Depth Gage.

drill a hole one-sixteenth inch in ting into the first hole, one-third of its patented by a Russian inventor. diameter. Now this hole drilled blug. The hole at right angles in the | for wrapping tobacco in England. steel receives the gage wire, and when inserted compresses the pine to four gallons of whitewash will preplug where it crosses. This gives the vent the latter rubbing off a wall. desired friction, which will hold the in gaging the depth of an aperture. Mr. Clark, the designer of this gage. has used one twenty years without American.

As Much as \$100,000 Expended in Prep aration of Samples Sent to Variour Country Customers.

Some of the larger dry goods houses If this country are said to expend annually as much as \$100,000 in the proparation of samples, which are sent to their patrons throughout the country from which to make selections of stock. These firms, of course, handle s great many different grades and de signs, and quantities of fine materials must be cut up into small pieces and pasted by hands on cards on which have been printed the numbers by which the samples are identified. In this connection these firms are at the mercy of careless employes, who may cause serious losses and delays in confusing the samples while the pastlog is being done. Recently the idea has been conceived of reproducing the samples by making embossed impresslops on the card. The inventor has devised a method of reproducing the textile fabric so accurately that one can actually count the threads on the embossed paper reproduction by using an ordinary counting glass. Any slight irregularity in the cloth is faithfully reproduced. Instead of making up the samples in separate cards, he makes up a complete line in a long folder, something like that of a railroad time table. On the first page is plece of the actual material, which the buyer may examine critically to test the quality of the line. The different patterns he can select by referring to the samples. As an evidence of the perfection of this embossed reproduction, not only colored namples of cloth are reproduced, but even white goods. The paper sample card has been adopted by a number of large merchants in New York City. who find that it cuts down their sample bill fully 50 per cent.

### SHOVEL MADE QUITE USEFUL

Sifts Ashes in Heater and Does Away With Accompanying Dust-Screen Does the Work-

An unpleasant feature to the sifting of ashes that has led many a householder to give up this economical operation is the dust that is raised by most of the processes. A Michigan man has invented an ash-sifting shovel that does away with this annoyance | thing before you attempt another. and appears to solve the problem nicely. A screen fits inside a specially constructed shovel, and can be raised or lowered by means of a lever, Mineral Product of Dominion Controls The shovel is thrust into the furnace



Useful Shovel.

year or so. The weight of ashestos and a load of ashes taken up. The screen is then raised a couple of inches and the implement put back into the heater and shaken back and forth until all the fine ashes have dropped through the screen into the scoop and the coals remain on top. All the dust raised by this proceeding is confined to the inside of the fur

# INDUSTRIAL

Amber is divided into 100 different kinds. A new roofing material is steel

conted with lead. Nearly all the meerschaum in usu

omes from Turkey. Gas is being extracted from the cot

tonwood trees of Kansas. Benzol is being pushed as a substi-

tute for gasoline as auto fuel. Graphite from a lead pencil is the simplest cure for a squeaky binge. The world's production of copper

has trebled in the last twenty years. Russia is showing a marked preference for automobiles of American make The conductivity of aluminum is

about 60 per cent, that of annealed copper. What promises to be a valuable deposit of ashesios has been discovered

in Venezuela. Earth excavated from Panama canal is sufficient to build 63 pyramids

the size of that of Cheops. A method for making telt boots and diameter, as right angles to and cut- knitted goods out of dog hair has been

Higher prices for tip have led to lengthwise is plugged with a pine the extensive use of aluminum foli The addition of a pint of glue water

A ie her covered metal tube which gage wire any place that is required | may be slipped along a closed umbrella to roll it tight is an English invention. Wyoming produced more than six times as much gold last year as time renewing the plue plug -Scientific year before but less silver and cop-

## MODERN DRY GOODS HOUSES KEEP THE PROPORTION

FOR GOOD RESULTS, RECIPES MUST BE FOLLOWED.

Except in the Matter of Flavoring, be done pour the coffee from Where One's Own Taste May Be Made Gulde, Alterations Are Likely to Spail Dish.

As a rule, a recipe should be faithfully followed. For instance, in making soup you cannot, because you are put in the same quantity of water without damaging the soup, but you it. must reduce the amount of the water same proportion. In matters of flastances. If you are told to use cloves, a bit of made may be substituted. If are to be consulted. you read a recipe and it calls for something you have not, consider whether with the substance of the dish, or if sole flavoring, though sometimes it is it is merely an accessory for which something else can be substituted. If you are ordered to use cream in a sauce, milk with a larger amount of washed butter may take its place.

Where cream is the chief part of the dish, milk will not do. For a cake in which cream is used, butter whipped to a cream may take its place. Again, in cakes be very careful that the exact proportions of flour, eggs and milk are used. Never lessen the amount of eggs where sods and acid are depended on for lightness. Never add milk, if a cake is too stiff, when milk is not one of the ingredients, but used, a little more may be added.

serves as a good salamander. It must once in six months. be held over the article that requires

Economical Suggestions. Silk should never be ironed on the ight side, as it will be shiny wherever the fron has touched it.

To prevent the gravy soaking through the bottom crust of meat ples brush over the crust with white of cloth. This is good for matting also.

After frying onions pour a little vinegar into the frying pan, let it get bot.

the ordinary yellow and is more effi- sweetened and stiffened with a little

standing in them.

Heart-Shaped Rolls. Make rolls from the following rec-

pe: One quart of flour, one tablespoonful of butter, one and one-half level tablespoonful of sugar, one tablespoonful of mashed potato, one-half Harper's Bazar.

Apple Meringue.

Core and pare the apples and lay them in a baking dish, fill the cavities with sugar, a few drops of lemon fuice and a little grated rind. Add a little water and bake carefully until tender. Then cover with a meringue made with the whites of three eggs for six or seven apples, and three tablespoonfuls of powdered sugar. Brown it slightly and serve with a sauce made of the yolks of the eggs. three tablespoonfuls sugar and one pint milk, and cook like soft custard. This may be served bot or cold.

teaspoonful of sait, two eggs, flour to on lettuce leaves. make a thin batter and one teaspoonful of baking soda. Beat up the eggs well, add the salt and mix thoroughly. smoothly from a spoon. Give a good liquor. Serve piping hot. beating and bake quickly on a hot. well-greased griddle.

Potted Ox Tongue.

then best all together thoroughly, when partly cold. Now firmly press this mixture intr little pans and pour clarified lard or Set back in oven to brown slowly. butter on top. Put on paper tied stove, lay a place of wire gaune over firmly and keep in ice chest.

Butternut Candy.

One pint maple syrup, one cup granulated sugar. Boil till it hardens in cold water, then cool a little, stirring constantly. Be careful not to stir too long and sugar it. Stir la betternut meats and cool on buttered plates. The more nuts the better.

#### AVOID WARMED-OVER COFFEE

Hard to Wate the Beverage Palatable, Though There Are Uses to Which tt Way Be Put.

Never serve warmed over coffee. It is one of the worst of warmed-overs and has little justification. If it must grounds, atrain and set in a tight glass jar in a cold place. When reheating tie a little fresh coffee in a lawn bag and bring to a ball with it. This gives mure of the fresh-made flavor.

Left-over coffee is good strained and kept on the ice until lunch, when it short of the given quantity of ment, serves as iced coffee. This should have whipped cream and sugar pareed with Have loed ton glasses half full of shaved ice and pour the cold coffee and every other ingredient in the over it. Occasionally the whipped cream, sweetened, is mixed with the voring you may vary to suit circum- coffee, but tastes vary too decidedly to make this feasible when strangers

Another use for left-over coffee is to improved by adding a tablespoonful of sherry or brandy.

More prosaic, left-over coffee can be typical suggestions. sealed in glass jury and be ready to dilute to give lace curtains, nets and narrow laces a creamy tint after lann-

#### KEEPING FLOOR IN CONDITION

Excellent Polish May Be Made at Home and Kept for Use-Use No Scapsuds on Hardwood.

calls for no end of "elbow greasa." another egg may be used. If milk is | Por a hardwood or stained wood floor, take eight ounces of yellow beeswax, Eph. 6:12, 14, 1 Tim. 6:12. A "re-Flavoring may be always varied one quart of Venetian turpentine; cut Sometimes in "cook books" you are the wax into small pieces and pour told to use articles not frequently the turpentine over it, and let stand in 19:22. found in ordinary kitchens, such as a a vessel of warm water until dissolved, salamander, which is very useful but which it will readily do; then bottle. seldom found in small kitchens; but Apply a very little at a time with a when you wish to brown the top of a flaunel cloth, rubbing until there is about descendants, he being as yet dish and putting it in the oven will none left on the surface, then proceed childless. Even so, however, Abram not do, or the oven is not quick enough until the whole floor is finished. It was willing to count the child of his to serve, an iron shovel, made nearly keeps the floor in excellent order, and steward as fulfilling the promise of red, and a few red cluders in it, the polish is required ordinarily about God. Not so with God for the prom-

browning near enough to color it. Jet a hardwood floor that is oiled or verse 4, the heir was to be Abram's waxed. All that is needed is to wipe You must beware of attempting too with a cloth dampened in a little warm much at once; perfect yourself in one | water-say a wash basin full, to which about two tablespoonfuls of coal off has been added. One tablespoonful to the basin will be enough for anything unless very dirty. The oil should be well stirred into the water, the cloth just dampened, wrung out as dry as possible before use, and the floor pol-ished afterward with a clean flannel

Rhubarb Mold.

An excellent mold for a luncheon and it will remove all smell from the or supper dish is made of rhubard cut into lengths and boiled until suf-When washing coarse clothes use ficiently liquid to pass through a jelly soft soap, as it will go further than bag. Then the liquid so procured is good gelatine. This should color Do not leave wooden tubs dry or quite nicely of itself, but if it does they will quickly erack and come not seem quite of an appetizing plak-Keep a little water always ness, a few drops of carmine can be added. This is cooked till of the neceasary stiffness to "jelly" well, and then poured into mold and set aside to cool. Whipped cream should be served

Pigeons Served With Peas. Put the pigeons into a stewpan compressed yeast cake dissolved in with a little butter, just to stiffen; one-half cupful of cold water, scant then take them out, put some small pint of milk, and one egg. Knead un- slices of bacon into the pan, give a til it forms a soft dough, cut into fine color, draw them, and add a heart-shaped balls, and bake when spoonful of flour to the butter; then light. Serve, freshly baked, with put in the pigeons and bacon, moisten heart-shaped pats of butter for a Val- by degrees with gravy, and bring it entine's day luncheon or supper. to the consistency of sauce; boll it; senson with parsley, young onlons, and let it simmer; when half done put in a quart of peas, shake them often, and when ready thicken the peas with flour and butter. There should be no

Cottage Cheese Salad.

gravy left.

Place over the fire a pan of milh which has soured and thickened. When it has become scalding hot ladle the curd and whey into muslin bag and hang up the bag to drain for an hour or two, then take the curd from the bag. Moisten with thick cream. Mix in a small quantity of salt, work well with the hands and either form in a mound, in a glass dish or roll in balls. Keep well cov-One quart of buttermilk, one level ered in a cool place and serve cold

Breaded Beet Cubes.

Cut small beets into cubes and cov-Dissolve the sods in two tablespoon- or with very fine eracker crumbs and fals of boiling water, then stir it into some minced bacon. Place in the oven the buttermilk. Now gradually add surrounded with several slices of the flour, stirring all the time, until bacon to furnish drippings, and basts you have a hatter that will pour the best cubes frequently with the

Cream Candy.

Two cups brown sugar, one cup white sugar, one cup sour thin cream; Carefully remove the rough skin of boil till it bardens in cold water; add one tongue, and then pound it very sme-half cup broken walnuts, beat till tine. Now add an ounce of mixed it thickens and feels heavy around spices, put in five ounces of butter, adges; pour into buttered tin and cut

> Quick Teaster. When toasting bread over the gas he gas plate. This will prevent burnng the bread and will toust it in half the time.

Schemian Sandwich.

Add stoned and chopped olives to jottage or neufchatel choese that has been made smooth with a little Worbestershire sauce. Spread between the alices of brown or rys bread

(By E. O. SELLERS, Director of Eve-ning Department Two Moody Bildo In-ctitute of Chicage.)

#### LESSON FOR MARCH 2

GOD'S COVENANT WITH ASRAM

LESSON TEXT-Gen. 18:3-18. GOLDEN TEXT-"He is faithful that romised."-Heb. 19:28.

Until within recent years it was frequently asserted that Abram's battle, as recorded in Gen. 14, "had not one whit of proof," yet the archaeologists turn it into a dessert, a mousse, gela- have not only reconciled the apparent that something has anything to do tin or ice cream, the coffee being the discrepancies but have proven beyond a question the accuracy of the record. Abram's victory over the four confederate kings is a story rich with

> I. "After These Things." vv. 1-7. God's word (v. 1) came to Abram not only as a counsel but for assurance as well. So, too, our assurance is his word, I John 5:13. In the midst of the uncertainty and the strife, for we must remember Abram never possessed the land, God appeared to him in a vision and said, "Fear not." See Isa, 41:10. There in the midst of foes (Jas. 2:23) God promised to be Pollshing floors is hard work, and to Abram a shield and an exceeding great reward. A "shield" for there is to the Christian life a militant side. ward" which was far more rich than any given by man. See 14:21, Prov.

> Abram Was Human. But Abram was, after all, human. and we read in verse 2 his question ise (12:3) was to include Sarah also. Soapsuds abould never be used on God very clearly makes this plain in indeed and not the child of another. But not only is Abram to have an heir but the land in which he was sojourning as a pilgrim was to be his and his seed to be as the stars for multitude

"And he believed." The great test to this faith came later. Heb. 11:19, but here in this first distinct scriptural history of faith we find set forth those principles that have governed through all time. (1) The acceptance of the word of God, e. g., to have our trust built upon or supported by the word of Jehovah see lan. 20:21: (2) to act upon that faith so that our course in life manifests the belief of

God's covenant, 12:14, is confirmed is seven ways, 1. Posterity, (a) natural, "earth," (b) spiritual, "heaven," (c) also through Ishmael, Gen. 17:18-20: 2, Blessing, both temporal and ual: 3. great name: 4. He a blessing, Gal. 3:13, 14; 5, "I will bless them that bless thee;" 6, "and curse them that curse thee; 7, the families of the earth blessed through Abram. e. g., through Christ, Gal. 3:16.

"And he believed in the Lord" (v. 6). Abram built upon the naked word of God, he simply looked at that and that alone, Rom. 4:20, R. V. All God nake of us is for us to take him at his word. So it is that as we take his word about Jesus, he reckens that faith to us as righteousness; no maiter how unrighteous we may have been, see Rom. 4:3-6; Gal. 3:6-7. The one think that God demands is that we believe him and his word.

II. "Whereby Shall I Know." vv. 8-18. The weakness of human faith indicated by Abram's question (v 8) is answered by God giving to him direct bess!" tions for the preparation of a sacrifice. Abram did not really doubt your head?" God's word (v. 6), but he did desire a confirming sign. Many today are looking for assuring signs from God when his bare word should be enough. Asking for signs is not always safe, Luke 1:18-20, but as in Abram's case God does give us a pledge a sign of our inheritance, 2 Cor. 1:22, Eph. 1:14. God gave Abram, after he had explicitly followed his directions, a symbolic vision of himself. Someone has auggested that the vile birds of prey (v. 11) are symbolic of Satan, and Abram, driving them away, a symbol of one victory over evil. Jan. 4:7 God is always nearer to man and best reveals himself when we are in the midst, of sacrifies. God tells Abram. of those days of servitudeou the part of his descendants while they are to be in Egypt, of God's judgment to be brought upon that land and of their ultimate deliverance.

Symbols of God.

Every detail of these predictions and promises was fulfilled. In serse 15 there is presented the great thought of the need of preparation in youth for the future days of "good old age"-also in this verse a suggestion of the life beyond the grave.

The smoking furnace and the fiaming torch were symbols of God himself. Four omsturies of opportunity were to be allowed the powerful Amorites who now peasessed the land before the land came into bona-fide possession in accordance with the promise, for God's judgment was conditioned upon the "measure of their infquity being full." In the midst of this horror of darkness came God's final assurance to Abram in the symbolic "flaming torch" which passed between the pieces of the slain animals typical of the two parties to the con-

# CONSTIPATI



Pillicare unlike all other laxatives or cathartics. They cook the liver into activity by gentle mathods, they do not scour; they do not gripe, they do not worken; but they do start all the secrations of the liver and stomach in a way that soon puts these organs in a healthy condition and

corrects constitution. Munyon's Paw-Paw Pills are a tonic to the stomach, liver and nerves. They Invigorate Instead of weathers: they earlich the blood fastead of impoverishing it; they anable the stomach to get all the nourishment from food that is put into it. Price as cents. All Druggists.



THOUGHTFUL RUTH.



Ruth-Yes; I got papa to buy a vacuum cleaner for mother.

Maud-How thoughtful! Ruth-Yes. Mother is a little stilfened up with rheumatism, you know, and I used to feel so norry to see her trying to use the broom that I always left home on sweeping day.

What She Meant.

"So you think I amoke too much?" he asked, just to keep up a conversation that seemed to be languishing. "Not at all," she answered, not very skillfully concealing a yawn.

"You said you thought so." "Pardon me. I don't think you are smoking too much." "Didn't you say that I'd die if I

didn't cut it down?" "Yes-that's what I said." It took him a long time to get Mr and then he was quite angry.

Connolsseur.

"Mother, is father in the fruit bush

"No, son. What put that idea into

"Well, when he took me for a walk the other day he met Mr. Jones, and all they talked about was peaches, pippins and dates "-- Judge.

A DIFFERENCE. It Paid This Man to Change Food.

"What is called 'good Hving' eventsally brought me to a condition quite the reverse of good health, writes a

N. Y. merchant, "Improper eating told on me till my stomach became so weak that food nauseated me, even the lightest and simplest lunch, and I was much depressed after a night of uneasy slass-

ber, unfitting me for business. This condition was discouraging, as I could find no way to improve it. Then I saw the advertisement of Grape-Nuts food, and decided to try it, and became delighted with the re-

"For the past three years I have used Grape-Nuts and nothing else for my breakfast and for lunch before retiring. It speedily set my atomach right and I congratulate myself that I have regained my health. There is no greater comfort for a tired man than a lunch of Grape-Nuts. It insures restful alvep, and an awakening in the morning with a feeling of buoyant courage

and hopefulness. "Grape-Nats has been a boon to my whole family. It has made of our 3year-old boy, who used to be unable to dignot much of anything, a robust, healthy, little rescal weighing 29 pounds. Mankind certainly owns a debt of gratitude to the expert who invented this perfect food." Name given by Postum Co., Battle Cresk,

Mich. "There's a reason." Ever read the above letter? A now one appears from time to time, They are granine, true, and full of became interest. Adv.